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APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,439	10/29/2003	Tomohiro Sakai	Т36-159872М/КОН	4576
	590 01/19/200 LLECTUAL PROPEI	EXAMINER		
8321 OLD COURTHOUSE ROAD SUITE 200 VIENNA, VA 22182-3817			WEISS, HOWARD	
			ART UNIT	PAPER NUMBER
			2814	
	<u>-</u>			
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	тне	01/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	. Applicant(s)		
Office Action Summary		10/695,439	SAKAI ET AL.		
		Examiner	Art Unit		
		Howard Weiss	2814		
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet	with the correspondence add	dress	
A SH WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.1. SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUI 36(a). In no event, however, may will apply and will expire SIX (6) M , cause the application to become	NICATION. y a reply be timely filed HONTHS from the mailing date of this coe ABANDONED (35 U.S.C. § 133).	,	
Status					
2a)⊠	Responsive to communication(s) filed on 30 N. This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under Expression 1.	action is non-final.	•	merits is	
Dispositi	on of Claims				
5) □ 6) ☑ 7) □ 8) □ Applicati	Claim(s) 1-3,5-9,11,12 and 25-32 is/are pendir 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-3,5-9,11,12 and 25-32 is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and/or con Papers The specification is objected to by the Examine	wn from consideration. ed. r election requirement.			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected drawing(s) be held in abet tion is required if the drawi	yance. See 37 CFR 1.85(a). ing(s) is objected to. See 37 CF		
Priority (ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice 3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	Paper I	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application		

Application/Control Number: 10/695,439

Art Unit: 2814

Attorney's Docket Number: T36-159872M/KOH

Filing Date: 10/29/2003 Continuing Data: none

Claimed Foreign Priority Date: 10/29/2002

Applicant(s): Sakai et al. (Moriyama, Murakami, Shibata)

Examiner: Howard Weiss

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 7, 25 to 29, 31 and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Ota et al. (JP 04-085972).

Ota et al. shows all aspects of the instant invention (e.g. Figures 1 and Column 3 Lines 27 and 34) including an SiC device comprising a layer of p-type SiC 3, an electrode 7 comprising first electrode material 4 in contact with said p-type SiC, second electrode material 6 of Al and third material 5 of Ti located between said first and second materials. Said first and second materials exhibiting an eutectic reaction at a temperature of 600°C or less and exhibiting the properties claimed.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 2, 3, 5, 6, 8, 9, 11, 12 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ota et al. and Fujimoto et al. (U.S. Patent No. 6,2242,761).

Ota et al. disclose the claimed invention (Paragraph 2) except for the use of nickel instead of germanium as the first electrode material. Fujimoto et al. teach (Column 7 Lines 31 to 36) that germanium is an equivalent electrode material known in the art. Therefore, because these two electrode materials were art-recognized equivalents at the time the invention was made, one of ordinary skill in the art would have found it obvious to substitute germanium for nickel.

Response to Arguments

5. Applicant's arguments with respect to Claims 1 to 3, 5 to 9, 11, 12 and 25 to 32 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion ·

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 7. Papers related to this application may be submitted directly to Art Unit 2814 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center number is (571) 273-8300. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Howard Weiss at (571) 272-1720 and between the hours of 7:00 AM to 3:00 PM (Eastern Standard Time) Monday through Friday or by e-mail via Howard.Weiss@uspto.gov. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on (571) 272-1705.
- 9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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10. The following list is the Examiner's field of search for the present Office Action:

Field of Search	Date
U.S. Class / Subclass(es): 257/77, 781	thru 1/8/2007
Other Documentation: none	
Electronic Database(s): EAST, PAJ	thru 1/8/2007

HW/hw 8 January 2007 Howard Weiss Primary Examiner Art Unit 2814